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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/748,462	12/30/2003	Kevin W. Glass	ITL.1052US (P17706)	7072
21906 7	7590 06/14/2005		EXAMINER	
TROP PRUNER & HU, PC			WELLS, KENNETH B	
8554 KATY FI	REEWAY			
SUITE 100			ART UNIT	PAPER NUMBER
HOUSTON, TX 77024			2816	

DATE MAILED: 06/14/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	·	Application No.	Applicant(s)		
Office Action Summary		10/748,462	GLASS, KEVIN	W.	am
		Examiner	Art Unit		1
		Kenneth B. Wells	2816		
Period for F	• •		-	ddress	
THE MA - Extension after SIX - If the per - If NO per - Failure to Any reply	TENED STATUTORY PERIOD FOR REPLY ILLING DATE OF THIS COMMUNICATION. as of time may be available under the provisions of 37 CFR 1.13 (6) MONTHS from the mailing date of this communication. iod for reply specified above is less than thirty (30) days, a reply iod for reply is specified above, the maximum statutory period we reply within the set or extended period for reply will, by statute, or received by the Office later than three months after the mailing atent term adjustment. See 37 CFR 1.704(b).	86(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days fill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered tim the mailing date of this D (35 U.S.C. § 133).		1.
Status					
1)⊠ Re	esponsive to communication(s) filed on $\frac{42}{2}$	2/05			
		action is non-final.			
3) <u>□</u> Si	nce this application is in condition for allowar	nce except for formal matters, pro	secution as to th	ne merits is	6
clo	osed in accordance with the practice under <i>E</i>	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.		
Disposition 4) Cl	of Claims aim(s) $\frac{ -9 }{1}$ is/are pending in the application	n.			
) Of the above claim(s) $\frac{2-9}{2}$ is/are withdrav	vn from consideration.			
5)∐ Cl	aim(s) is/are allowed. aim(s) ^{1,17,19} is/are rejected.				
	aim(s) <u>18133,31 is/are rejected.</u> aim(s) <u>18133,31 is/are objected to.</u>				
	aim(s) <u>reports</u> tistate objected to: aim(s) are subject to restriction and/or	r election requirement			
0, 0.	am(o) are subject to restriction and/or	cicolori requirement.			
Application	Papers				
	e specification is objected to by the Examine				
	e drawing(s) filed on [2-300 ³ is/are: a)∐ acce				
	plicant may not request that any objection to the				
	eplacement drawing sheet(s) including the correcti			•	d).
11) in	e oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form F	10-152.	
Priority und	ler 35 U.S.C. § 119	,			
12) <u></u> Ac a)∏ 1.)-(d) or (f).		
	 Certified copies of the priority documents 		on No		
	☐ Copies of the certified copies of the prior	• •		al Stage	
	application from the International Bureau	-			
* See	the attached detailed Office action for a list	of the certified copies not receive	d.		
Attachment(s)					
	f References Cited (PTO-892) f Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da			
3) Ninformat	ion Disclosure Statement(s) (PTO-1449 or PTO/SB/08) D(s)/Mail Date 3 2 7 7	5) Notice of Informal P		ΓΟ-152)	

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- 1. Applicant's election of species A (Fig. 1) filed on 4/22/05 is acknowledged. However, claims 2-9 are not seen to read on this elected embodiment and are therefore withdrawn from consideration by the examiner (i.e., they read on species B, not species A).
- 2. The drawings are objected to because it cannot be determined how Figs 1 and 2 are related to each other. example, is Fig. 2 supposed to be a detailed depiction of Fig. 1? Or is it a detailed depiction of just part of Fig. 1? The specification indicates that both figures illustrate "threshold detector 10", but Fig. 1 appears to be a larger more comprehensive circuit than that of Fig. 2. Applicant needs to clear up this ambiguity in response to this office action. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered

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and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

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- 3. Claim 18 is objected to because of the following informalities: there is no relationship set forth between the step of providing the common mode feedback signal to the current source and the two steps previously set forth in claim 17, which renders claim 18 unclear. Appropriate correction is required.
- 4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

⁽b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Marschall.

Note Fig. 1, where the recited current comparator reads on element 40, which compares an input signal to a first or second (lower) threshold.

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 17, 19, 20 and 30-32 are rejected under 35 U.S.C. 103(a) as being unpatentable over White.

As to claim 17, note Fig. 5, where the recited absolute value detection of a differential input is performed by element 115; and the output thereof is compared to a reference signal via comparator 111. Not disclosed is that the comparator 111 is a current comparator, but such would have been obvious to a person having ordinary skill in the art who knows that current comparators are equally well-known and used in the art

interchangably with voltage comparators, i.e., these two types of comparators are art-recognized equivalents.

As to claims 19 and 20, these claims merely recite intended uses of the instant invention, and thus do not patentably distinguish over a reference that meets claim 17 under 35 U.S.C. 102 or 103.

As to claim 30, official notice is taken that it is old and well-known in the art to connect a latch at the output terminal of a circuit element (for the well-known purpose of reliably holding the state of a signal at that terminal).

As to claims 31 and 32, the use of a current source supplying current to the absolute value detector 115 and reference circuit 105 in White also would have been obvious, since it is notoriously well-known in the art that such integrated circuit components require some type of current source to perform their intended function (official notice again being taken by the examiner.

6. Claims 18, 33 and 34 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kenneth B. Wells whose telephone number is (571)272-1757. The examiner can normally be reached on Monday through Friday from 8:30am to 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy P. Callahan, can be reached at (571)272-1740. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kenneth B. Wells
Primary Examiner
Art Unit 2816

June 10, 2005